

Appl. No. 09/643,316
Response dated 8/9/2004
Reply to Office Action of 4/9/2004

AMENDMENTS TO DRAWINGS

The attached sheets of drawings included changes to Fig.3, Fig. 4 and Fig. 10. Fig. 3 has been amended so that the reference characters in table 302 are unique, i.e., reference characters “350-352”, Fig. 4 has been amended to correct the Category BVs, namely 440, 441 and 442 with the correct values as shown in Table 300 in Fig. 4. Fig. 10 has been amended so the two tables contain proper index labels.

Attachment: Replacement Sheet for Fig. 3

Replacement Sheet for Fig. 4

Replacement Sheet for Fig. 10



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300

Products Table			
Product ID	Description	Manufacturer	Category
1	ACME Printer	1	1
2	ACME Computer	1	2
3	Apex Computer	2	2
4	Best Printer	3	1
5	Apex Monitor	2	3

Produkt - Seite

Manufacturers Table		Categories Table		
Manufacturer ID	Manufacturer	Category ID	Category	Category ID
1	ACME	320	Printer	35
2	Apex	321	Computer	36
3	Best	322	Monitor	37

3

302 /

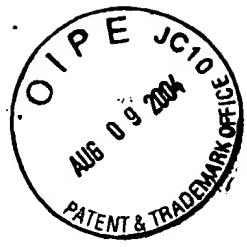
Categories Table	
Category ID	Category
1	Printer
2	Computer
3	Monitor

Category ID	Categories Bit Vector Index	Bit Vector
1	34	1 0 0 1 0
2	34	0 1 1 0 0
3	34	0 0 0 0 1

88

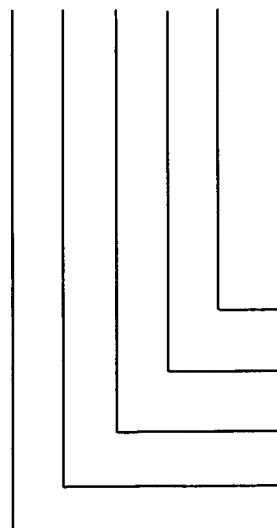
Manufacturers Bit Vector Index	
Manufacturer ID	Bit Vector
1	11000
2	00101
3	00010

333



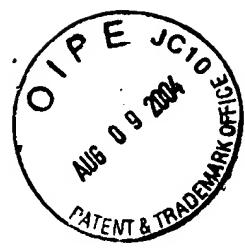
300

Products Table			
Product ID	Description	Manufacturer	Category
1	ACME Printer	1	310
2	ACME Computer	1	311
3	Apex Computer	2	312
4	Best Printer	3	313
5	Apex Monitor	2	314



Product ID	1	2	3	4	5
Indexed Value	1	1	0	0	0
Manufacturer_Indexed	2	0	0	1	0
Category_Indexed	1	0	1	0	0

Fig. 4



1000

CategoryID-to-ManufacturerID Bit Vector Index		
Category ID	Bit Vector	
1	1	0 1014 1
2	1	1 1012 0
3	0	1 0 0

1001

ManufacturerID-to-CategoryID Bit Vector Index		
Manufacturer ID	Bit Vector	
1	1	1 0
2	0	1 1015 1013 1
3	1	0 0

1340
Category ID = 1 1 0 1 1 0
1341
Category ID = 2 0 1 0 0 0

Fig. 10